SERVICE DATA
FILE NO. 140-086

TOSHIBA

STEREO TURNTABLE

SR-F335

SPECIFICATIONS

Drive System:	Direct drive
Drive Motor:	DC servo controlled (16-polar, 24-slot)
Speeds:	33-1/3 and 45 rpm
Speed Control Range:	±2% (for both speeds)
Platter:	31cm aluminum diecast platter equipped with stroboscope
Tonearm:	Static-balanced S-shaped pipe Effective length – 222mm Overhang – 14mm Tracking error – +3° ~ –1° Direct-reading tracking force scale Detachable head shell Pressure-response type anti-skating mechanism Range of cartridge weight for replacement cartridges – 14g ~ 20g (including head shell and screw) Minimum tracking force – 1.5g
Signal to Noise Ratio:	40 dB (DIN 45539A) 70 dB (DIN 45539B)
Wow & Flutter:	±0.045% (DIN 45507) W. zero to peak
Power Supply:	AC 220 ~ 240V 50 Hz
Power Consumption:	6W
Dimensions:	453(W) x 360(D) x 155(H) mm
Weight:	6.5kg
Accessory Functions:	Auto-start, auto-cut, auto-return, auto-repeat, manual operation, cueing mechanism, detachable free-stop type dust cover
Cartridge Type:	C-59M Moving Magnet
Frequency response:	20 ~ 20,000 Hz
Output Voltage:	3mV (at 1 kHz 50 mm/sec.)
Recommended Impedance:	47 ~ 100KΩ
Separation:	More than 25 dB
Channel Balance:	Within 1 dB
Optimum Tracking Force:	1.5 ~ 2.0g
Stylus:	N-59D

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1. OPERATING INSTRUCTIONS

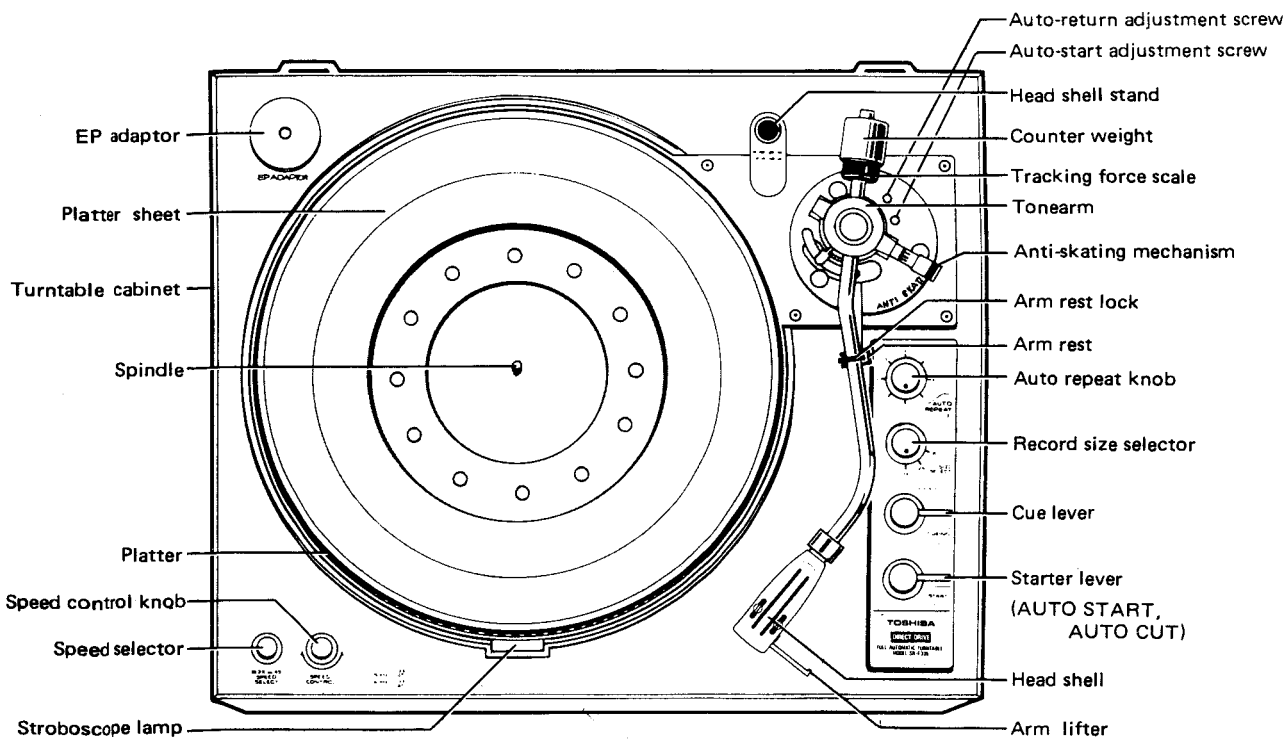


Figure 1.

2. DISASSEMBLY PROCEDURE

PLATE COVER REMOVAL

1. Remove nine screws (1) and one screw (2). See figure 2.
2. Remove four screws (3). See figure 2.
3. Remove the plate cover from the cabinet.

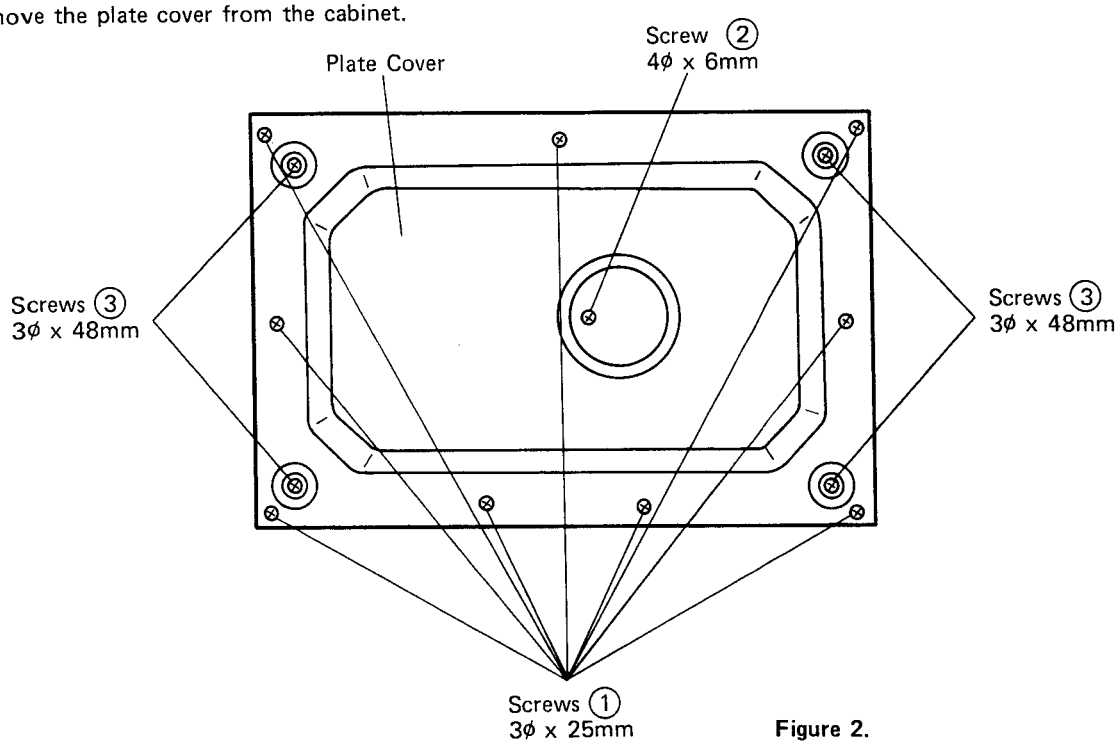


Figure 2.

3. ASSEMBLY PROCEDURE

HOW TO MOUNT THE CARTRIDGE

1. First remove the head shell from the tone arm (by simply turning the lock nut in the direction of the arrow shown in Fig. 3).
2. Set your cartridge in the head shell. The head shell lead wire colours are shown in Fig. 4. It is of the utmost importance that correct cartridge lead connections be made. (Cartridge sold separately)
3. When fitting the cartridge in the head shell, be sure to perform overhang adjustment after tightening the cartridge slightly with the fixing screws and nuts.

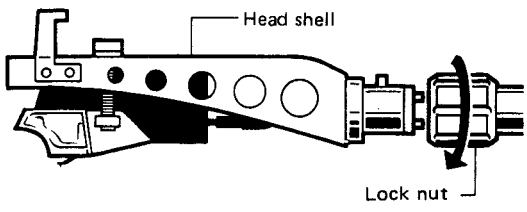


Figure 3.

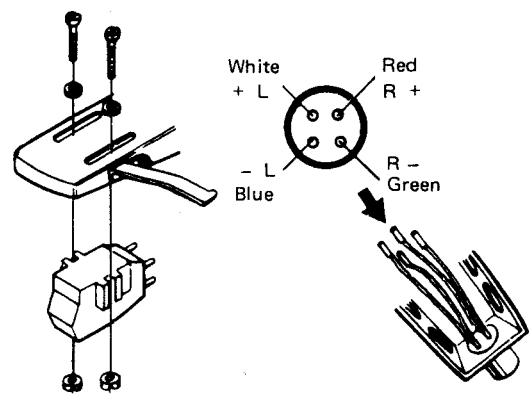


Figure 4.

4. ADJUSTMENTS

OVERHANG ADJUSTMENT

When repalacing a cartridge, it will be necessary to adjust for overhang. As has been indicated in Fig. 5, the distance from the stylus tip to the point of connection to the tone arm is exactly 50mm. When mounting the new cartridge, this distance is adjusted by means of the screw which holds the cartridge in place in the head shell.

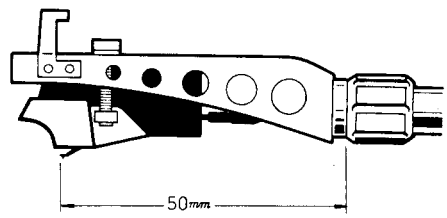


Figure 5.

TRACKING FORCE ADJUSTMENT

(Note: this adjustment is important)

If the turntable has already been connected to an amplifier, be sure to switch the amplifier's power supply off before commencing this adjustment.

(1) First remove the stylus cover.

(2) Check that the cue lever is in the ▼ position, and that the tone arm itself is free to move from the arm rest.

(3) Set the anti-skating mechanism to read "0".

(4) Now carefully screw the counterweight out backwards until the tone arm is perfectly balanced in a horizontal plane. Then keeping the counterweight still, turn the tracking force scale only to align the "0" with the reference line.

(5) Next turn the counter weight together with the tracking force scale so that the scale reading corresponds with the tracking force rating specified for your cartridge.

(6) Return the tone arm to the arm rest.

(7) Also adjust the anti-skating mechanism to the same value as the tracking force.

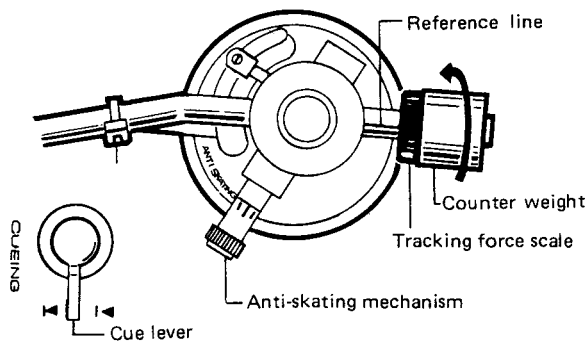


Figure 6.

PLATTER SPEED ADJUSTMENT

Adjust the platter's rotational speeds to exactly 33-1/3 and 45 rpm by means of the speed control knob and the stroboscope. When the relevant stroboscope markings appear to be stationary, the platter will be rotating at the correct speed. The speed may be increased by turning the speed control knob in the F (faster) direction, and decreased by turning in the S (slower) direction. Press the speed selector knob down for 45 rpm operation. Press again to release for 33-1/3 rpm operation.

Note: In the models equipped with a power switch and combined speed selector/speed control knob, the stroboscope light will light up when the power switch is pressed. Press the speed selector/speed control knob for 33-1/3 rpm adjustments, and pull out for 45 rpm adjustments.

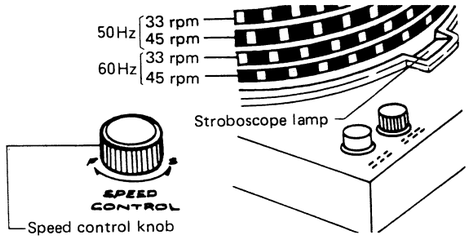
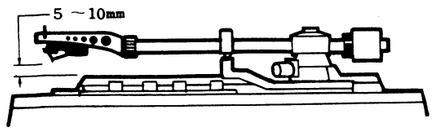


Figure 7.

STYLUS HEIGHT ADJUSTMENT

The distance between stylus tip and record surface when the cue lever is in the ▼ position, is adjusted by means of the height adjustment screw on the tone arm pivot (this task will require a small screw driver).

- Turning in the clockwise direction will raise the stylus.
- Turning in the counterclockwise direction will lower the stylus.



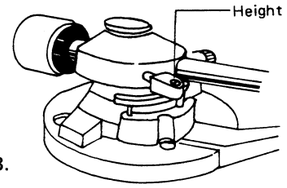


Figure 8.

AUTO-START POSITION ADJUSTMENT

- When stylus lands too close to the outer edge of the record
  Turn the auto-start adjustment screw in the clockwise direction.
- When stylus lands inside the first track
  Turn the auto-start adjustment screw in the counterclockwise direction.

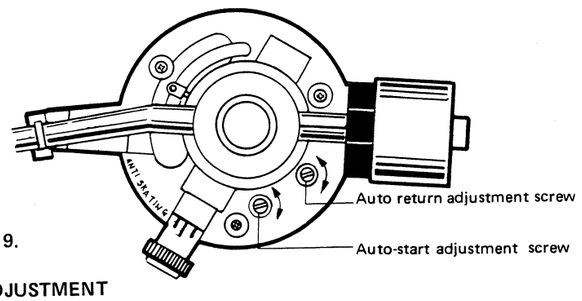
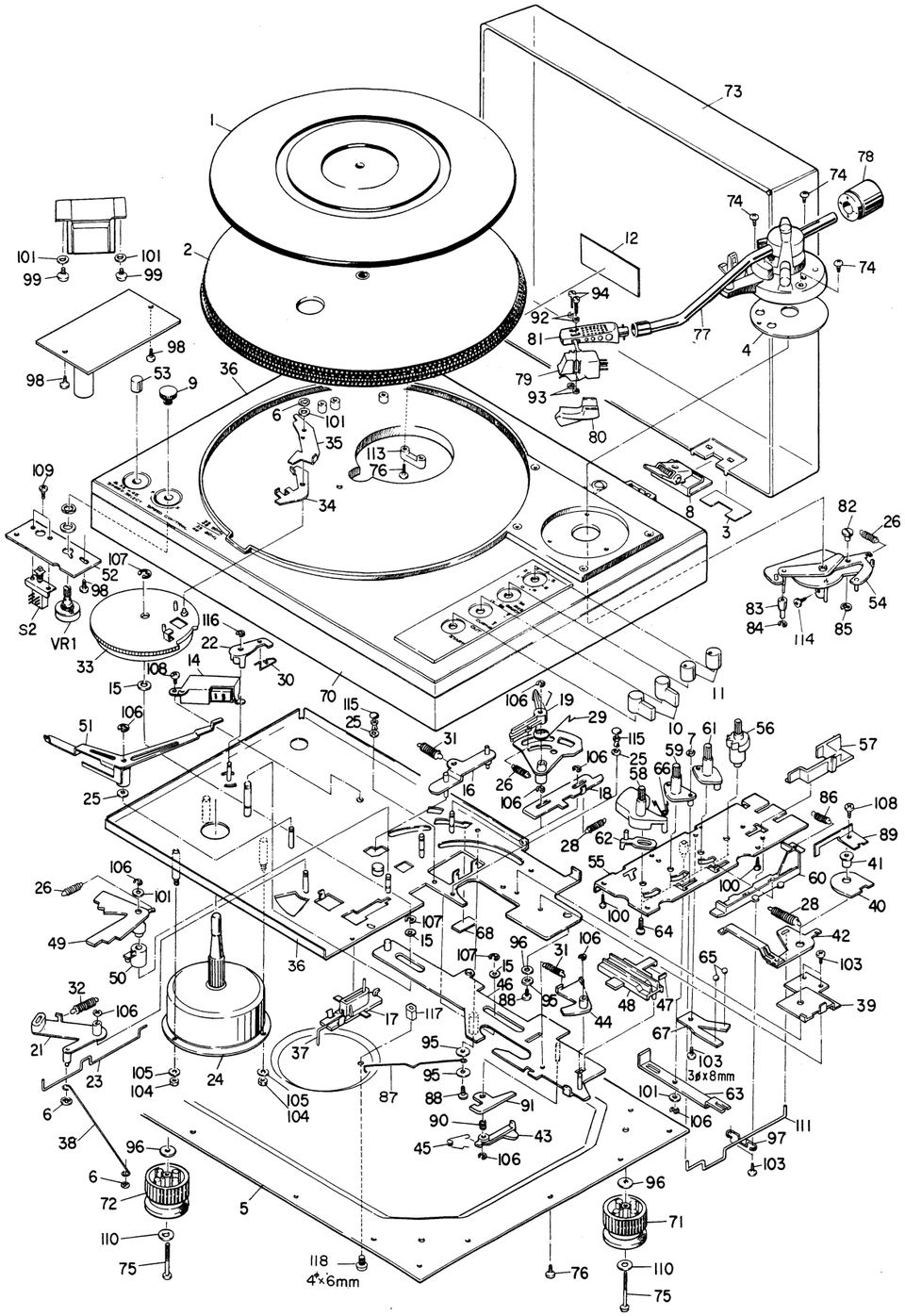


Figure 9.

AUTO-RETURN POSITION ADJUSTMENT

- When the tone arm returns to the arm rest before the end of the record
  Turn the auto return adjustment screw in the counterclockwise direction.
- When the tone arm fails to return to the arm rest after the stylus has entered the lead-out groove
  Turn the auto return adjustment screw in the clockwise direction.

5. MECHANICAL AND CABINET PARTS LOCATIONS



NOTE: Parts excluded in the Parts List are not available as replacement parts.

Figure 10.

6. WIRING DIAGRAMS

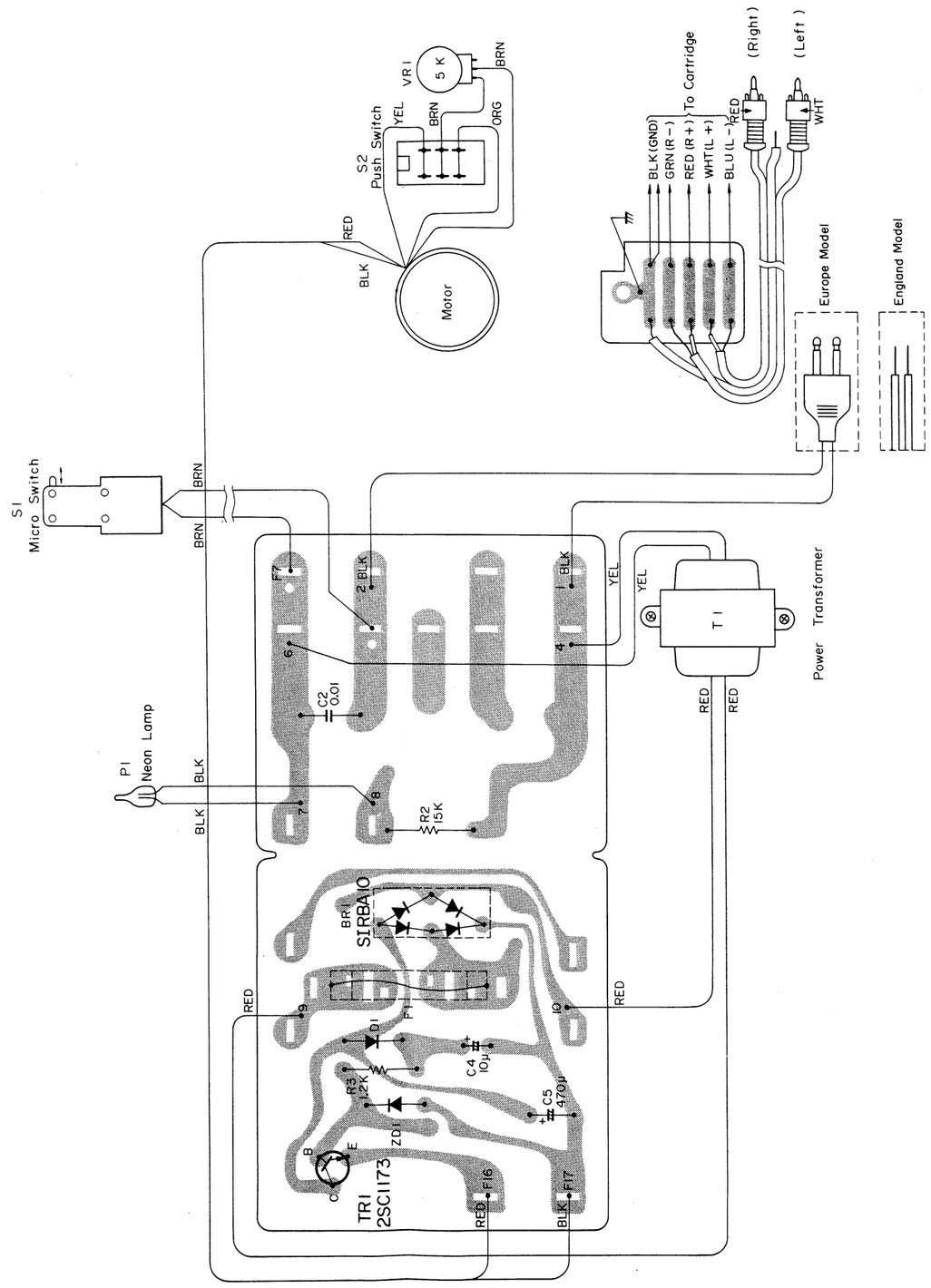
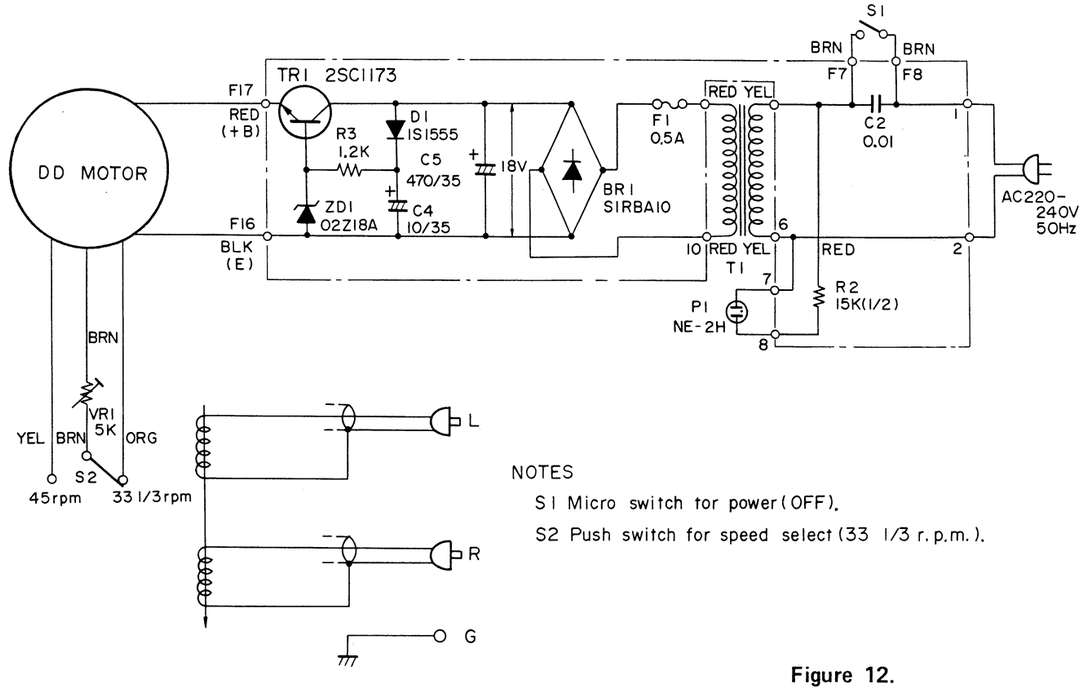


Figure 11.

7. SCHEMATIC DIAGRAM



NOTES

S1 Micro switch for power (OFF).

S2 Push switch for speed select (33 1/3 r.p.m.).

Figure 12.

8. PARTS LIST

Symbol No.	Part No.	Description
	TRANSISTORS AND DIODES	
TR1		Transistor, 2SC1173Y.X.JA
D1		Diode, 1S1555V
ZD1		Diode, 02Z18A
BR1	22115342	Diode, SIRBAIO
	ELECTRICAL PARTS	
T1	22213483	Transformer, Power (Europe)
	22223168	Transformer, Power (England)
S1	22146261	Switch, Micro, Power (Europe)
	22146033	Switch, Micro, Power (England)
S2	22146194	Switch, Push, Speed Select (Europe)
	22146295	Switch, Push, Speed Select (England)
F1	22144295	Fuse, 0.5A/250V
	22176286	Cord, Power (Europe)
	22176536	Cord, Power (England)
	22164761	Cord, Pin Plug
P1	22113437	Lamp, Neon (NE-2H)
	CAPACITORS	
C2	22340090	Ceramic, 0.01mfd, 150V, −20+80%
C4	22447100	Electrolytic, 10mfd, 35V
C5	22440222	Electrolytic, 470mfd, 35V
	RESISTORS	
R2	22563153	Solid, 15K ohm, 1/2W, ±10%
R3	22545122	Carbon Film, 1.2K ohm, 1/4W, ±5%
VR1	22622405	Variable, 5K ohm (Europe)
	22622021	Variable, 5K ohm (England)
	MECHANICAL AND CABINET PARTS	
1	20723048	Mat, Table
2	20723052	Turntable
3	20746206	Plate, Hinge
4	20778123	Plate, Decoration
5	20826184	Cover, Plate
6	20798033	Nut, 3ø
8	20861086	Hinge, Player
9	20871222	Knob, Speed Control (Europe)
	20871307	Knob, Speed Control (England)
10	20871303	Knob, Start/Cueing
11	20871304	Knob, Size Select/Repeat
12	20877244	Nameplate
14	20743073	Cover, Switch

Symbol No.	Part No.	Description
15	20746204	Spacer, Return Lever
16	20753201	Lever, Start Switch
17	20743075	Guide Block
19	20753204	Arm, Micro Switch
20	20753205	Lever, Micro Switch
21	20753219	Lever, Cut
22	20753228	Lever, Gear Lock
23	20763217	Rod, Start Switch
24	22125319	DD Motor
25	25764399	Washer, Teflon
26	25771883	Spring, Repeat Nail
28	25771886	Spring
29	25773326	Torsion Spring, Switch
30	25771934	Spring, Gear
31	25771885	Spring
32	25771894	Spring
33	20727037	Gear, Main
34	20753199	Lutch
35	20753200	Lutch
37	20763219	Rod, Size Select
38	20763221	Rod, Cut
39	20746202	Bracket, Cueing Lever
40	20753223	Plate, Cueing
41	20773209	Collar
42	20751155	Cueing Lever Ass'y
43	20753212	Nail
44	20753213	Nail, Repeat
45	25773325	Spring, Nail
47	20746203	Cushion, Return Lever
48	20753214	Block, Lift
49	20753215	Lever, Cum
50	20753216	Nail
51	20751163	Cut Lever Ass'y
53	20871302	Knob, Speed Select (Europe)
	20871198	Knob, Speed Select (England)
56	20753209	Latchet, Repeat
57	20753210	Slider
58	20753224	Cum, Start/Stop
59	20753225	Cum, Cueing
60	20753226	Slider, Repeat
61	20753227	Cum, Size Select
62	20753229	Slider, Start/Stop
64	20763218	Pin, Control Cum
65	20773077	Ball, Steel
66	25773332	Spring, Cueing
67	25774514	Spring, Control
70	20811310	Cabinet Ass'y (England)
	20811309	Cabinet Ass'y (Europe)
71	20842112	Leg Ass'y, Back
72	20842105	Leg Ass'y, Front
73	20847108	Dust Cover Ass'y
74	22707269	Tapping Screw, 4ϕ x 10mm
75	22707182	Tapping Screw, 3ϕ x 48mm
76	22701247	Tapping Screw, 3ϕ x 25mm

Symbol No.	Part No.	Description
77	20788083	Tone Arm Ass'y
78	20788079	Weight, Tone Arm
79	22155071	Cartridge
80	20788080	Cover, Stylus
81	20736032	Head Shell (Europe)
	20736033	Head Shell (England)
82	20757026	Cum, Adjust
84	25735159	E Washer, 1.5ϕ
85	25735222	E Washer, 4ϕ
86	25771902	Spring
87	25775167	Spring
90	25772456	Spring, Nail
91	20746209	Plate, Friction
92	20791077	Washer
93	20796027	Nut
94	20794116	Screw, 2.6ϕ x 16mm (Europe)
	20794066	Screw, 2.6ϕ x 14mm (England)
106	74050020	E Washer, 2ϕ
110	20746087	Spacer
113	22184117	Clamp, Cord
114	22707016	Screw, 3ϕ x 6mm
115	22705021	Rivet, Plastic, 3ϕ x 3.5mm
		ACCESSORIES
	20951379	Owner's Manual, English
	20951386	Owner's Manual, French (Europe)
	20951387	Owner's Manual (Europe)
	20971046	Adaptor, 45r.p.m.